

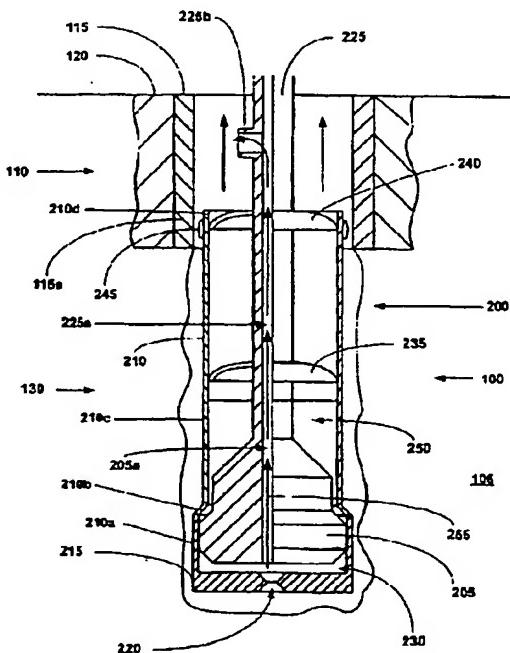
UK Patent Application (19) GB (11) 2 388 134 (13) A

(43) Date of Printing by UK Office 05.11.2003

(21) Application No:	0314846.7	(51) INT CL: E21B 43/10
(22) Date of Filing:	11.01.2002	(52) UK CL (Edition V): E1F FLA
(30) Priority Data: (31) 60262434 (32) 17.01.2001 (33) US		(56) Documents Cited by ISA: US 6085838 A
(86) International Application Data: PCT/US2002/000677 En 11.01.2002		(58) Field of Search by ISA: Other U.S.: 166/380,207,85.1,177.4,212,216,217,242.1,378
(87) International Publication Data: WO2002/068792 En 06.09.2002		
(71) Applicant(s): Enventure Global Technology (Incorporated In USA - Delaware) 16200 A.Park Row, Houston, Texas 77084, United States of America		
(72) Inventor(s): Robert Lance Cook Lev Ring		
	(continued on next page)	

(54) Abstract Title: Mono-diameter wellbore casing

(57) A mono-diameter casing formed when a tubular liner (210) and an expansion cone (205) are positioned within a new section fo a wellbore (100) and the tubular liner (210) is overlapped with a pre-existing casing (115). A hardening fluid is injected into the section of the wellbore (100) below the level of the expansion cone (205) and into the annular region between the tubular liner (210) and the wellbore (100). The inner and outer regions of the tubular liner (210) are isolated. Then a non hardening fluid is injected into the interior region of the tubular liner (210) to pressurize it below the expansion cone (205). The overlapping portion of the pre-existing casing (115) and the tubular liner (210) are then expanded using an expansion cone (205).



GB2388134 A continued

(74) Agent and/or Address for Service:
Haseltine Lake & Co
Imperial House, 15-19 Kingsway,
LONDON, WC2B 6UD, United Kingdom

2388134

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

**(19) World Intellectual Property Organization
International Bureau**



(43) International Publication Date
6 September 2002 (06.09.2002)

PCT

(10) International Publication Number
WO 02/068792 A1

(51) International Patent Classification⁷: E21B 19/16.
23400

RING, Lev [RU/US]; 14126 Heatherhill Place, Houston,
TX 77077 (US).

(21) International Application Number: PCT/US02/00677

(74) Agents: MATTINGLY, Todd et al.; Haynes & Boone, LLP, Suite 4300, 1000 Louisiana Street, Houston, TX 77002-5012 (US).

(25) Ellipsis Languages English

Practical

66 Publication Languages English

Enslavement

(30) Priority Date: 69-262-434 17 January 2001 (17.01.2001) US

(71) **Applicant (for all designated States except US): ENVENTURE GLOBAL TECHNOLOGY [US/US]; 16200 A. Park Row, Houston, TX 77084 (US)**

(72) Inventors; and
(75) Inventors/Applicants (*for US only*): COOK, Robert,
Lance [US/US]: 934 Caswell Court, Katy, TX 77450 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR,

[Continued on next page]

(54) Title: MONO-DIAMETER WELLBORE CASING

This cross-sectional diagram illustrates a borehole completion assembly. The borehole wall is shown with various features: a top section labeled 115, 120, and 226b; a middle section labeled 110, 219d, 115a, 245, 225a, 210, 210c, 206a, 210b, 219a, 215, 220, 225, 240, 200, 100, 250, 255, 265, 266, 105, 268, and 220. Arrows indicate fluid flow paths through the assembly, such as 110, 130, 200, 100, and 250.

(57) Abstract: A mono-diameter casing formed when a tubular liner (210) and an expansion cone (205) are positioned within a new section fo a wellbore (100) and the tubular liner (210) is overlapped with a pre-existing casing (115). A hardening fluid is injected into the section of the wellbore (100) below the level of the expansion cone (205) and into the annular region between the tubular liner (210) and the wellbore (100). The inner and outer regions of the tubular liner (210) are isolated. Then a non-hardening fluid is injected into the interior region of the tubular liner (210) to pressurize it below the expansion cone (205). The overlapping portion of the pre-existing casing (115) and the tubular liner (210) are then expanded using an expansion cone (205).

WO 02/068792 A1

GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent
(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
NE, SN, TD, TG).

— *with amended claims*

Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv)) for US only*

Published:

— *with international search report*

Date of publication of the amended claims: 31 October 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.